
Product Data Sheet

Product Name: IL2 Canine, His
 Cat. No.: GP20482
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Interleukin-2; IL-2; T-cell growth factor; TCGF.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHPMAPITS SSTKETEQQM EQLLLDLQLL LNGVNNYENP QLSRMLTFKF YTPKKATEFT HLQCLAEELK NLEEVGLLPQ SKNVHLTDTK ELISNMNVTL LKLKGSETSY NCEYDDETAT ITEFLNKWIT FSQSIFSTLT.		
Formulation	IL2 Canine protein solution (0.5 mg/ml) contains Phosphate buffered saline (pH7.4).		

Introduction

IL2 is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli.

Biological Activity

The ED50 measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. is < 0.3 ng/ml.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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IL2 Canine Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 160 amino acids (21-155 a.a) and having a molecular mass of 18.1 kDa. IL2 Canine is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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